

**ABSTRACT**

[0024] A method for controlling a positioning device of an internal combustion engine includes the steps of: providing an electric motor for actuating the positioning device with the positioning device applying a torque to the; detecting a commanded position of the positioning device; detecting a sensed position of the positioning device; forming a damping term based upon the sensed position; forming a dynamic feedforward term based upon the commanded position; and forming a control action based separately upon the damping term and the dynamic feedforward term.

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